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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,639	03/09/2001	Byung Hyo Kim	P-195	3935
34610	7590	09/16/2004	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			SIDDIQI, MOHAMMAD A	
			ART UNIT	PAPER NUMBER
			2154	

DATE MAILED: 09/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/801,639	KIM, BYUNG HY0	
	Examiner	Art Unit	
	Mohammad A Siddiqi	2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-15 are presented for examination.

Specification

2. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. A substitute abstract in proper idiomatic English is required. Abstract is not conforming to the extent that it fails grasp the claimed invention in a broader prospective. The cryptic claim language has been used in abstract to describe the claimed invention, which fails to provide an overall invention in a concise way as required in an abstract.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Bartholomay et al. (6,539,023) (hereinafter Bartholomay).

7. As per claim 1, Bartholomay discloses an inter-processor communication apparatus of a mobile communication system comprising:

a data-FIFO configured to store a receiving data (12,fig 1, col 5, lines 1-10);

a slave-logic (24, fig 1) configured to control a writing operation of the receiving data for the data-FIFO (12,fig 1, col 5, lines 10-20) and count the length (col 5, lines 10-12) of the receiving data until an end-tap signal is inputted (col 5, lines 10-15;

a length-FIFO (16, fig 1, col 5, lines 10-13) directly connected to the slave-logic (16, fig 1, col 5, lines 10-13) and counted by the slave-logic (14,fig 1, col 5, lines 13-16); and

a CPU configured to continuously read (24,fig 1, col 5, lines 20-28) the data stored in the data-FIFO (12, fig1,col 5, lines 10-13) as much as the data read from the length-FIFO (16, fig 1, col 5, lines 10-13) when an

interrupt signal is inputted (col 5, lines 20-28) from the slave-logic (24b, fig 1, col 5, lines 20-34).

8. As per claim 2, Bartholomay discloses wherein the slave-logic counts the length (col 5, lines 10-12) of the receiving data until an end tag signal is inputted (col 5, lines 10-17).

9. As per claim 3, Bartholomay discloses the read data length is one frame data length (12,fig 1, col 5, lines 1-2).

10. As per claim 4, Bartholomay discloses the slave-logic stores the counted data length in the length-FIFO (16,fig 1, col 5, lines 10-13) when the end tag signal is inputted and outputs an interrupt signal to the CPU (col 5, lines 20-28).

11. As per claim 5, Bartholomay discloses the CPU continuously reads the data stored in the data-FIFO (12,fig 1, col 5, lines 10-13) by 1 byte unit as much as the data length stored in the length-FIFO (16,fig 1, col 5, lines 10-13).

12. As per claim 6, claim 6 is rejected for similar reasons as in claim 1, above.

13. As per claim 7, Bartholomay discloses the first and the second regions are FIFO (12 and 16, fig 1, col 5, lines 10-13).

14. As per claim 8, claim 8 is rejected for similar reasons as in claim 3, above.

15. As per claim 9, claim 9 is rejected for similar reasons as in claim 5, above.

16. As per claim 10, Claim 10 is rejected for similar reasons as in claim 1, above.

17. As per claim 11, Bartholomay discloses means for counting is directly connected to the first region and the second region (12 and 16, fig 1, col 5, lines 10-16).

18. As per claim 12, Bartholomay discloses the slave-logic is directly connected to the data-FIFO (12,fig 1, col 5, lines 10-13).

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19. As per claim 13, Bartholomay discloses the CPU is directly connected to the length-FIFO (16, fig1, col 5, lines 10-13).

20. As per claim 14, Bartholomay discloses wherein the counted data length of data is read in a single operation from the first region (col 5, lines 10-20).

21. As per claim 15, Bartholomay discloses the continuously reading comprises performing a single read operation to read the counted data length of data from the first region (col 5, lines 16-20).

Conclusion

22. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent 6,044,225

U.S. Patent 5,864,716

U.S Patent 6,081,854

U.S. Patent 5,657,055

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A Siddiqi whose

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telephone number is (703) 305-0353. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAS

A handwritten signature in black ink, appearing to read "N. El-Hach", with a long, sweeping vertical stroke extending downwards from the end of the signature.